

Bureau of Environmental Health
8930 Stanford Boulevard, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 5/19/16

ONSITE SEWAGE DISPOSAL SYSTEM

P 558724

APPROVAL DATE: 8/24/16

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 1930 Woodstock Road

SUBDIVISION: _____

LOT: _____

TAX ID: 03-291278

CONTRACTOR: Sam's Creek

EMAIL: sams.creek@aol.com

CONTRACTOR ADDRESS: 2810 Sam's Creek Road, New Windsor, MD 21776

PHONE: 443-821-4932

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: ☒ MDE

☒ MANUFACTURER: _____

PROPERTY OWNER: Michael McGinnis

EMAIL: Mmcginnis530@me.com

OWNER ADDRESS: 2257 Merion Pond, Woodstock, MD 21163

PHONE: 410-409-8248

NORWECO TNTLP-

BAT UNIT MODEL: 500GPD

PUMP SIZE: N/A

PUMP TANK CAPACITY: _____

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: 5/19/16

DATE RECORDED: 6/2/16

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:

LINEAR FEET REQUIRED: 112

INLET DEPTH: 4

TRENCH WIDTH: 2

MAXIMUM BOTTOM DEPTH: 8

MINIMUM SPACE

BETWEEN TRENCHES: 10

EFFECTIVE AREA BEGINNING DEPTH: 4

LOCATION:

PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.

NOTES:

ISSUED BY: Robert Bricker

ISSUE DATE: 10/25/16

EXPIRATION DATE: 5/19/17

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

☒ ELECTRICAL PERMIT ISSUED E 16002707

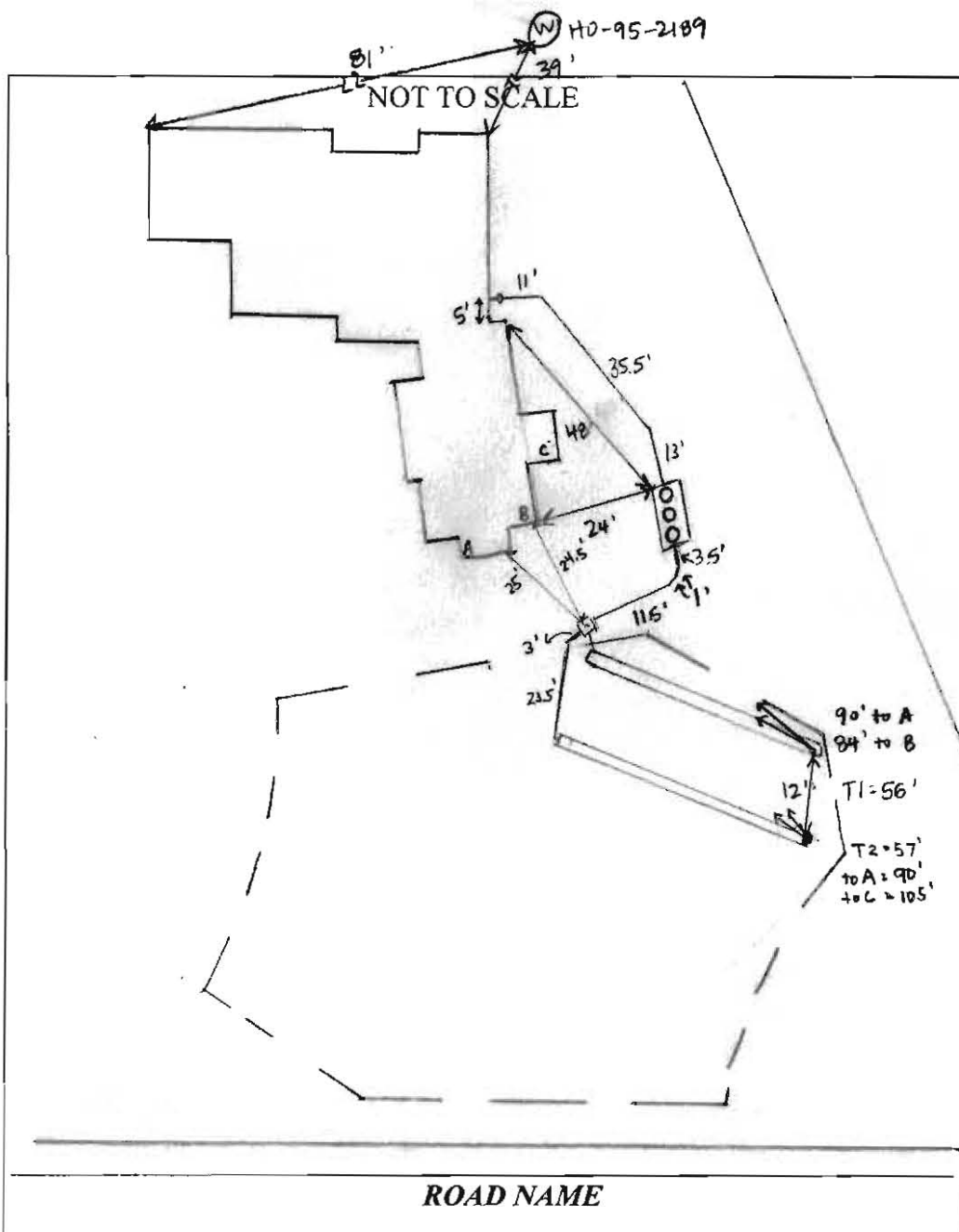
NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.

NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	4'	8'
NUMBER OF TRENCHES	2	
TOTAL LENGTH	113'	
ABSORPTION AREA	226' + SIDEWALL	
DISTRIBUTION BOX LEVEL	YES	
DISTRIBUTION BOX BAFFLE	YES	
DISTRIBUTION BOX PORT	YES	

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	YES
MANUFACTURER	BACKRIVER/ NORWEC
CAPACITY	1300 GAL
SEAM LOC	TOP
TANK LID DEPTH	2'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT, M. REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	8-23-16 (STAMP)

PUMP/SEPTIC TANK LEVEL

MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

10/25/16 On site for layout. No stakes present. (SC)

11/10/16 Stakes present but not labeled. Stakes at tank location, D-box, and trenches. SDA corners not staked. Need SDA corners staked + labeled. Builder/owner came during site visit and confirmed that a licensed surveyor staked tank - okay to set tank and dig line from house. (SC) 11/15/16 Shot contour and laid out 2x 56' trenches. (SC)

INSTALLATION: 11/10/16 Pipe laid from house to tank hole. Need house connection. (SC)

11/14/16 Tank set. Septic corners are staked + labeled. (SC) 11/15/16 D-box installed. T1 dug, 2' wide and 8" bottom. Sams Creek adding stone + pipe 4" inlet. (SC) 11/16/17 Site inspection Contractor not onsite, Dbox in place, 2nd trench under construction (stone in place, some pipe laid, no filter cloth). Stone looked good, inlet for 2nd trench was 4.5', left inspection sticker ok to continue. (SC) Need house connection and BAT startup certification. 11/21/16 BAT startup certification received. (SC) 2/8/18 Verified house connection with homeowner - ran water in house and saw flow at first cleanout outside house. (SC) 8/24/2018 BAT SYSTEM OPERATIONAL. ALARM WORKS. (SC)

FINAL INSPECTOR J. Cabalung DATE OF APPROVAL 8/24/18



BACK RIVER PRE-CAST, LLC
 PO BOX 329
 GLYNDON, MD 21071
 PH# 410-833-3394

NORWECO CERTIFICATION

PROPERTY OWNER: MICHAEL McGINNIS	INSTALLATION COMPANY: SAMS CREEK
ADDRESS: 1930 WOODSTOCK RD.	CERTIFIED INSTALLER: JOE WRIGHT
CITY, ZIPCODE & COUNTY: WOODSTOCK, 21163, HOWARD	PERMIT#
SIZE OF SYSTEM INSTALLED:	DATE INSTALLED: 11-16-116
600 CONCRETE	START-UP DATE: 8-24-18
NUMBER OF BEDROOMS:	DATE OF FINAL INSPECTION:
TYPE OF INSTALLATION: NEW	DATE OF ELECTRICAL INSPECTION:
ELECTRICAL WIRING PER ELECTRICAL INSTRUCTIONS: YES	TANK LEVEL: YES
HT. OF CONTROL PANEL ABOVE FINAL GRADE: 39"	BURIAL DEPTH OF TANK: 24"
SYSTEM WIRED ON A 15-AMP DEDICATED CIRCUIT WITH STD. BREAKER: YES	RISERS 4" - 6" ABOVE GRADE: YES
LENGTH(S) OF UF WIRE PAST LAST AERATION RISER(S): 22"	VENTED LID(S) ON AERATION CHAMBER(S): YES
FEMALE PLUG(S) WIRED TO UF WIRE: YES	ANY GROUND SETTLING AROUND TANK: NO
CONDUIT(S) ENTERING AERATION RISER MADE WITH A WATERTIGHT CONNECTION: YES	
IS THE INSIDE OF THE CONDUIT ENTERING THE CONTROL PANEL(S) AND AERATION RISER(S) SEALED WITH DUCT SEAL: YES	

ON 2ND PAGE MAKE A ROUGH SKETCH OF THE HOUSE ,WHERE THE SYSTEM IS LOCATED, WHERE THE CONTROL PANEL IS LOCATED , WHERE THE FRONT OF THE IS AND DIRECTIONS TO THE PROPERTY.

DIRECTIONS CAN START A FEW STREETS AWAY

EXAMPLE: RT. X LEFT ONTO XX STREET RIGHT ONTO PRIVATE DRIVEWAY 5TH HOUSE OF THE LEFT.

I certify that the Norweco Singulair TNT Wastewater Treatment System was installed according to the manufacture's specifications.

Matthew Geckle

August 24, 2018

Signature of BRP Representative

Vice-President

Date

Cabahug, Joseph

From: MATT GECKLE <124hratm@comcast.net>
Sent: Friday, August 24, 2018 4:35 PM
To: Wolf, Kevin; Cabahug, Joseph
Subject: MY DAY FRI 8-24

Kevin,

Joseph & I inspected 1930 Woodstock Rd.

The Norweco is operating properly & I will send you a new certification.

Then we went to 5020 Ten oaks Rd. to vacuum test the Norweco and Babylon's pump chamber.

The Norweco tested fine. I need to find something to seal the Tuf-Tite lids better. I am still getting a small leak at the lids, but I will find something and eliminate that.

The pump chamber had small leaks where the top slab meets the tank, but I sealed the hole joint and everything was fine. I still had a small leak at the Tuf-Tite lid.

By the way I have a new vacuum pump and I can suck down a tank in 5 minutes to 6hg. You can really hear a leak at 6hg. 10hg is equivalent to H-20 loading.

MATT GECKLE
BACK RIVER PRE-CAST,LLC

COURAGE IS BEING SCARED TO DEATH-
BUT SADDLING UP ANYWAY

Wolf, Kevin

From: Wolf, Kevin
Sent: Wednesday, August 01, 2018 3:03 PM
To: mmcginnis530@mac.com; 'mmcginnis530@me.com'
Subject: 1930 Woodstock Road

Mr. McGinnis,

I wanted to inform you that in order to process your Interim Certificate of Potability (ICOP) letter to release for your U/O, you will need to have your electrician/Septic contractor finish the install of the alarm panel to your BAT septic tank. Your vendor (Matt Geckle w/ BackRiver PreCast) should then be notified to come out and certify the unit as functional.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
(o) 410-313-2645
(f) 410-313-2648



kwolf@howardcountymd.gov

CONFIDENTIALITY NOTICE

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Wolf, Kevin

From: Huskins, Thomas
Sent: Thursday, May 24, 2018 9:28 AM
To: Wolf, Kevin
Cc: Blevins, Michael; Kelly, Sean
Subject: RE: Message from "RNP00267387C03D"

Kevin

Civil citation was issued to homeowner on 4-17-18 for moving into house without a U & O. Plumbing, mechanical, and electrical contractors have all cancelled their permits. Still no compliance from the homeowner who is his own general contractor, it appears this will go to court.

Thanks,

Tom

-----Original Message-----

From: Wolf, Kevin
Sent: Thursday, May 24, 2018 9:04 AM
To: Huskins, Thomas <thuskins@howardcountymd.gov>
Cc: Blevins, Michael <meblevins@howardcountymd.gov>
Subject: FW: Message from "RNP00267387C03D"

Tom,

Can you give me a status on this? We were holding up the ICOP letter on our for samples and pending issues with the septic system. Since then, we have resolved the water samples with the property owner but there was still an issue with the septic. I believe it was in regards to electrical inspections.

Thanks

Kevin

-----Original Message-----

From: savinscanner@howardcountymd.gov [<mailto:savinscanner@howardcountymd.gov>]
Sent: Thursday, May 24, 2018 9:11 AM
To: Wolf, Kevin
Subject: Message from "RNP00267387C03D"

This E-mail was sent from "RNP00267387C03D" (MP 3053).

Scan Date: 05.24.2018 09:10:34 (-0400)

Queries to: savinscanner@howardcountymd.gov



HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS

9250 Bendix Road

Columbia, Maryland 21045

410-313-1823

Robert J. Frances, P.E., Director
bfrances@howardcountymd.gov

FAX 410-313-1861
TDD 410-313-2323

NOTICE OF VIOLATION
FEBRUARY 2, 2018

MICHAEL J. MCGINNIS
1930 WOODSTOCK ROAD
WOODSTOCK, MD 21163
&
MICHAEL J. MCGINNIS
2257 MERION POND
WOODSTOCK, MD 21163

Re: 1930 WOODSTOCK ROAD
Building Permit #B14000996

MICHAEL MCGINNIS:

This is to **NOTIFY** the user Michael J. McGinnis and the Builder/Developer, Michael J. McGinnis, of 1930 Woodstock Road that the present use and/or occupancy of the subject building, structure, or equipment is in direct violation of the Howard County Building Code, 2015 International Building Code (IBC), Section 111. To Wit:

New Buildings: A certificate of occupancy, indicating completion of the work for which a permit was issued, shall be obtained prior to any occupancy of a structure except as provided for in Section 111.1

You are directed to discontinue this illegal action or condition and promptly set into motion the steps necessary to bring about the abatement of this violation in accordance with the 2015 Howard County Building Code.

Failure to comply with this Notice of Violation prior to **FEBRUARY 21, 2018** will result in, without further notice, the subject building or structure being deemed unsafe in accordance with Howard County Building Code, 2015 International Building Code (IBC), Section 111. *Requesting and passing a final building inspection must be completed by **FEBRUARY 21, 2018** in order to prevent any further enforcement action. Failure to correct the violations by the inspection date may result in legal action being taken against you, including the issuance of a civil citation with a minimum fine of \$250 a day for each day the violations are not corrected.*

In addition to and concurrent with the above action, this office will begin preparation of the legal documentation required by the Legal Counsel of this Jurisdiction to institute proceedings at law to seek injunctive relief requiring the removal of the unlawful use and also to seek criminal and civil monetary penalties as prescribed by the Howard County Code.

All questions concerning this Notice of Violation, its directive, and its abatement are to be directed to **MICHAEL BLEVINS**, Code Enforcement Officer, at (410) 313-1817 between the hours of 7:30 A.M. and 9:00 A.M., Monday through Friday or by letter to the Department of Inspections, Licenses and Permits, Thomas B. Dorsey Building, 9250 Bendix Road, Columbia, MD 21045-1800.

IS THIS STRUCTURE INSURED WHEN ILLEGALLY OCCUPIED?

Sincerely,

Thomas Haskins for MICHAEL BLEVINS

MICHAEL BLEVINS, Building Inspector
Inspections and Enforcement Division
mblevins@howardcountymd.gov



Maura J. Rossman, M.D., Health Officer

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2640

TDD 410-313-2323 | Toll Free 1-866-313-6800

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

LR - Agreement

Recording Fee 20.00

Senior/Grantee Name:

McGinnis

Reference/Control #:

155

LR - Agreement

Surcharge 40.00

Subtotal: 60.00

Total: 60.00

06/02/2016 12:17

CC13-WH

#6255689 CC0503 -

Howard Co

Columbia/CC05.03.05 -

Register 05

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 17th day of MAY, among Michael McGinnis, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 1930 Woodstock Road, in the 3rd Election District of Howard County, Maryland, and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 10, Block # , Parcel # 206, Deed Reference # and Tax Account # 03-291278 ("the Property").

WHEREAS, The Property is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013. The pre-treatment device being installed is

NuBioeco TNP 5006PD

NOW, THEREFORE, the parties hereto agree as follows:

A. Owner hereby grants to the County the right to enter upon the Property at any reasonable time with prior notice for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County.

B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.

C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.

D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.

E. This agreement shall run with the land and upon Owner's taking title to the Property shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Property that the system shall require maintenance or other attention. Upon taking title to the Property, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Michael J. Davis 5/19/16
Howard County Health Department

Mr. A. L. 5/10/16
Owner #1 Signature Date

Michael McGinnis
Owner #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

Buyer #1 Signature Date

Buyer #1 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name

Real Property Data Search (w3)

Guide to searching the database

Search Result for HOWARD COUNTY

View Map		View GroundRent Redemption		View GroundRent Registration	
Account Identifier:		District - 03 Account Number - 291278			
Owner Information					
Owner Name:		MCGINNIS MICHAEL		Use: RESIDENTIAL	
Mailing Address:		2257 MERION POND WOODSTOCK MD 21163-1326		Principal Residence: NO Deed Reference: /15888/ 00342	
Location & Structure Information					
Premises Address:		WOODSTOCK RD WOODSTOCK 21163-0000		Legal Description: 1.225 A WOODSTOCK RD WOODSTOCK	
Map:	Grid:	Parcel:	Sub District:	Subdivision:	Section: Block: Lot: Assessment Year: Plat No: Plat Ref:
0010	0024	0206		0000	2016
Special Tax Areas:			Town:		NONE
			Ad Valorem:		100
			Tax Class:		
Primary Structure Built		Above Grade Enclosed Area		Finished Basement Area	
				Property Land Area 1.2200 AC	
County Use					
Stories	Basement	Type	Exterior	Full/Half Bath	Garage Last Major Renovation
Value Information					
Base Value		Value As of 01/01/2016		Phase-in Assessments As of 07/01/2016 As of 07/01/2017	
Land:		158,400		158,400	
Improvements		0		0	
Total:		158,400		158,400	
Preferential Land:		0		0	
Transfer Information					
Seller: MERKLE KAREN L		Date: 11/21/2014		Price: \$265,000	
Type: ARMS LENGTH VACANT		Deed1: /15888/ 00342		Deed2:	
Seller: MERKLE SHIRLEY J & HUSB		Date: 01/02/2008		Price: \$0	
Type: NON-ARMS LENGTH OTHER		Deed1: /11029/ 00029		Deed2:	
Seller:		Date:		Price:	
Type:		Deed1:		Deed2:	
Exemption Information					
Partial Exempt Assessments:		Class		07/01/2016 07/01/2017	
County:		000		0.00	
State:		000		0.00	
Municipal:		000		0.00 0.00 0.00 0.00	
Tax Exempt:		Special Tax Recapture:			
Exempt Class:		NONE			
Homestead Application Information					
Homestead Application Status: No Application					

January 5, 2011

Mr. Michael Davis
Asst. Director, Bureau of Environmental Health
Howard County Health Department
7178 Columbia Gateway Drive
Columbia, MD 21046-2147
410-313-2640

**Re: Sewage Disposal Area for unimproved lot Tax Map 10 Parcel 206
Merkle Property – Woodstock Road 3rd District Howard Co. MD**

Dear Mr. Davis,

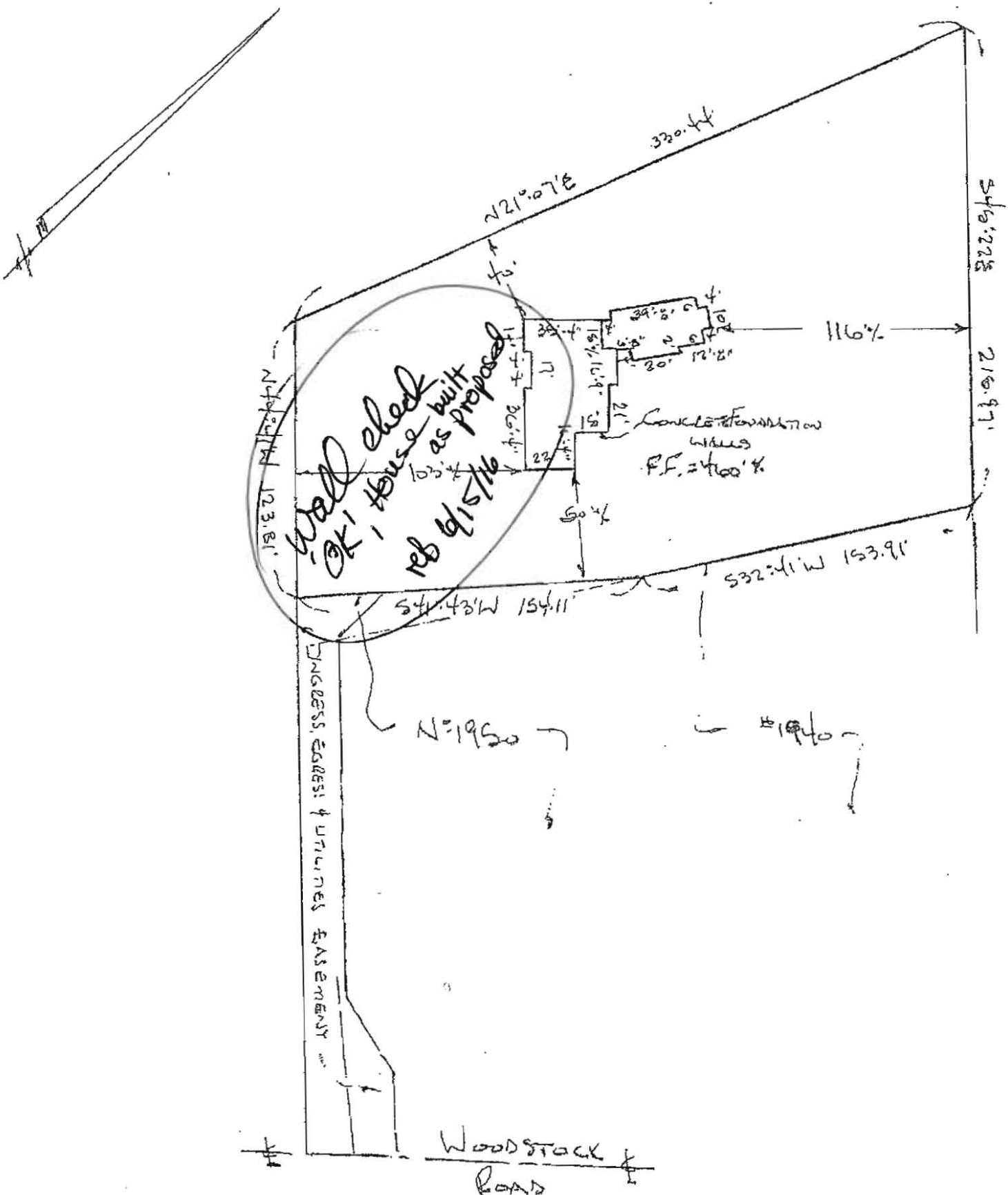
I am writing to request a variance from the requirement of Howard County Code Sec. 3.805 (2)(X) that specifies a 10,000sq.ft. Sewage Disposal Area for my family property referenced above. Due to the locations of wells on surrounding lots, the proposed Sewage Disposal Area is configured such that it contains only about 9,000 sq. ft. The area has been tested and is being proposed on a Percolation Certification Plan for our lot. We understand that the limitation of area may result in either a limitation in the number of bedrooms in the residence that may subsequently be permitted, or a requirement for pretreatment.

On behalf of the Merkle Family, I respectfully request you approve this variance concerning the Sewage Disposal Area for our lot.

Yours truly,



Karen Merkle,
1950 Woodstock Road
Woodstock, MD 21163



As-Built
Foundation
LOCATION DRAWING



FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
8/4/2011	'1940' is not the correct address for this property (it is the address for an adjoining property)
	The correct address will be be assigned when a building permit application is submitted.
*	At that time corrections need to be indicated on all official forms and documents
pBiden	1930 Woodstock Road

FILE INQUIRY NOTES

1930 Woodstock Rd.

DATE

RESULTS OF REVIEW FOR FILE

XX

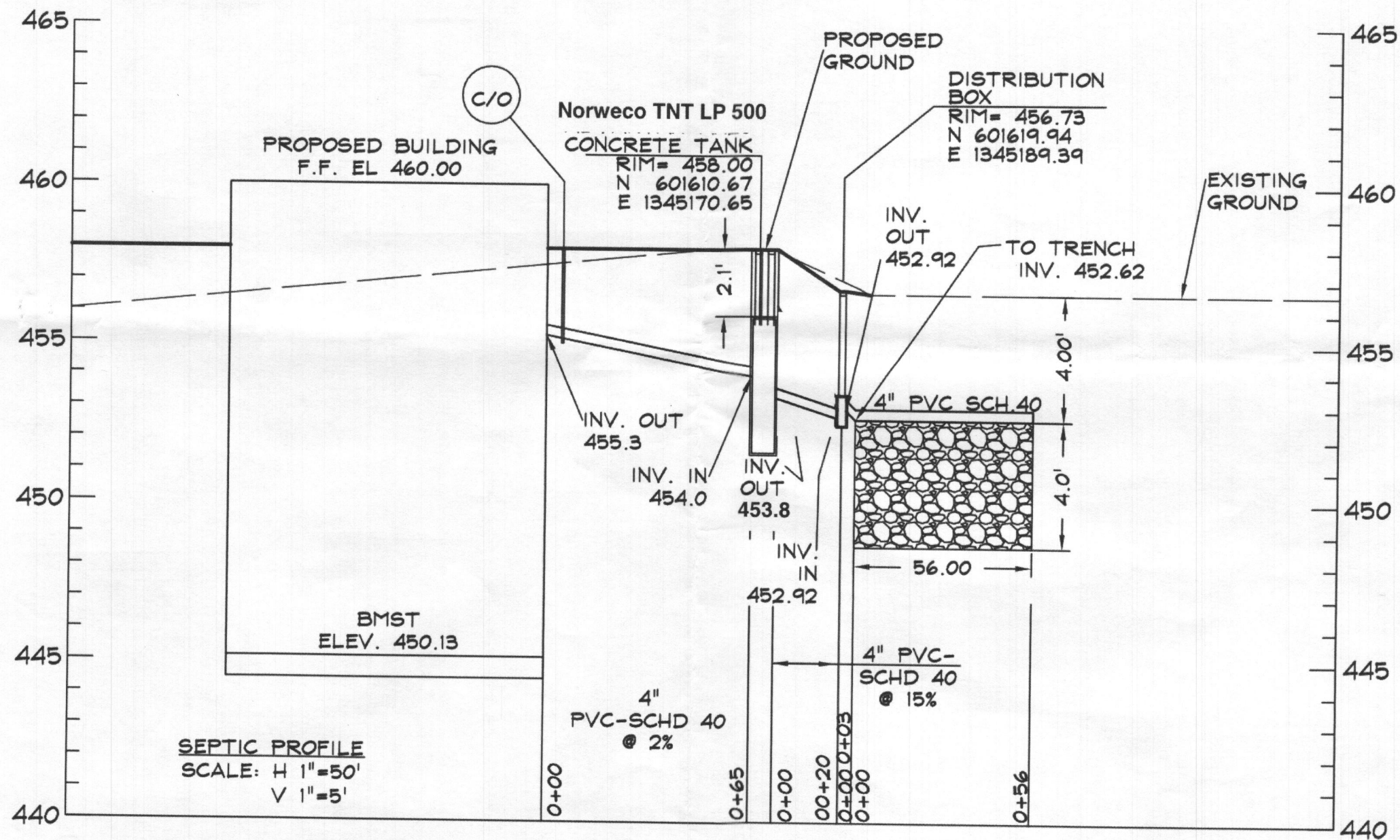
6/13/14 Fee for Radium testing
must be collected prior
to release of results
\$ ~~ICOP~~

See attached copy
of Invoice

R Bucker

7/16/14 Fee Paid reb
rept. # 54543

1930 Woodstock Road
BAT Plan, Septic System file
'OK' reB 10/3/2016



Re 9/30/16

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES

1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 6 FEET.
3. THE BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
6. WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
10. ELECTOR PUMP REQUIRED TO SEWER BASEMENT.

SEWAGE DISPOSAL SYSTEM DATA (5 BEDROOM):

1. INVERT @ FOUNDATION WALL: 455.3
2. 750 GPD BNR SYSTEM-W/ 2,000 GALLON TWO COMPARTMENT TANK MODEL: ADVANTECH AX20 MODE SA-W/CONCRETE TANK. MARYLAND 5-BEDROOM EX. GRADE OVER TANK: 458.0 PROPOSED GRADE OVER TANK: 458.0

3. TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750.00 GPD.) 750.00 GPD / 1.2 GPD/SF (ABSORPTION AREA) = 625 SF. ABSORPTION AREA: 625 sq. ft. / 2 ft. WIDTH = 312.5 ft. (LENGTH); 312.5 ft x 0.36 = 112.5 TOTAL LINEAR FEET OF TRENCH.

USE 2' WIDE TRENCH W/ 48" OF GRAVEL BELOW PIPE
USE 2 - 56' LONG TRENCH = 112 LF FOR INITIAL SYSTEM
USE 2 - 56' LONG TRENCH = 112 LF FOR FIRST REPLACEMENT SYSTEM.

4. TRENCH INLET: 4 FEET BELOW ORIGINAL GRADE, AND TRENCH BOTTOM, 8 FEET BELOW ORIGINAL GRADE

TRENCH SPECIFICATIONS

	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL TRENCH - A	456.62	452.62	448.62
INITIAL TRENCH - B	456.00	452.00	448.00
FIRST REPLACEMENT - C TRENCH	455.22	451.22	447.22
FIRST REPLACEMENT - D TRENCH	454.57	450.57	446.57

RESIDENTS	TIME ON (SEC)	TIME OFF (MIN)
2	0.2 min (12 sec)	19.8
3 or 4	0.3 min (20 sec)	19.7
5	0.4 min (24 sec)	19.6
6	0.5 min (30 sec)	19.5

Notes:

1. Topography shown hereon has been field verified. Ground elevations at test sites shown hereon are field run elevations. Topography checked 5-27-10.
2. Any changes to a private sewage easement shall require a revised percolation certification plan.
3. The area designated hereon as "Private Sewage Easement" is a private sewage easement as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This easement shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary.
4. The Private Sewage Easement as shown hereon for the subject property is about 9,000 square feet and the limitation of area shown may result in a limitation in the number of bedrooms in a future residence or a requirement for pretreatment.
5. The WELL for the subject property shall be drilled and the well completion report approved by the Health Department prior to building permit approval.
6. Existing wells, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' and down-gradient of existing or proposed septic systems or sewage disposal areas have been shown.
7. The parcel shown hereon complies with the minimum ownership width and lot area as required by the Maryland Department of Environment.

Access Easement

Access Easement
Courses / Distances
A = 144'-14"E 46'
B = 144'-41"W 36'
C = 175'-14"E 43.61'
D = 144'-41"W 153'
E = 10'-51"E 30.70'
F = 54'-45"W 46'
G = 54'-41"E 250.35'

Purpose Statement: The purpose of this plan is to establish a Sewage Disposal Area and a Well Reserve for (Tax Map 10) Parcel 206.

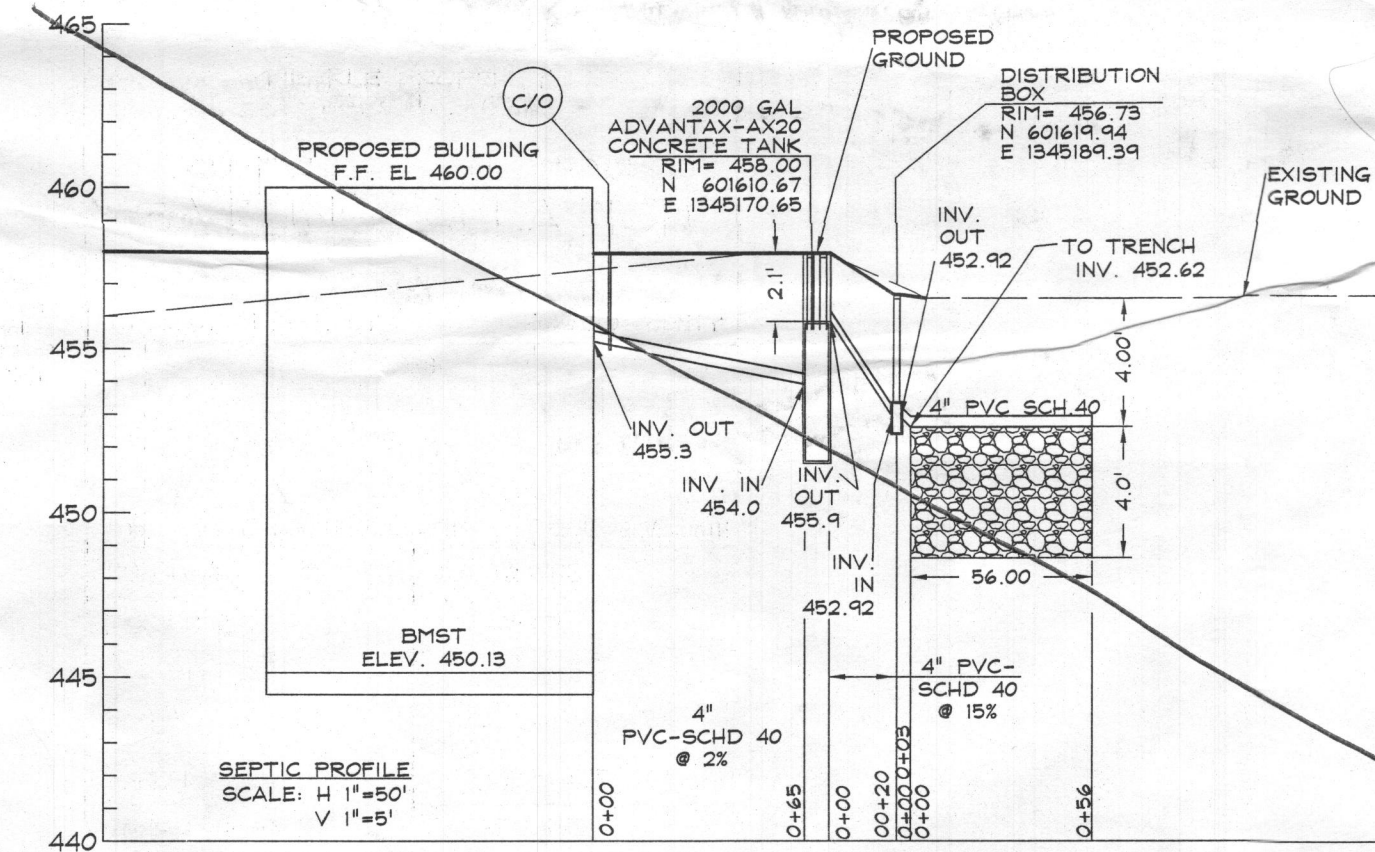
Approved for private water & private sewerage system:

Legend

- AREA SURROUNDING TANK DRAINAGE AREAS
- SEWAGE EASEMENT AREA
- SURFACE WATER FLOW DIRECTION
- ELEVATIONS TAKEN @ 5' ST. P.T.
- MA - 1/2" CO. ST. W/ 1/2" R.P. 1/2" W/ 1/2" R.P.
- 50' INDICATES EXISTING SEPTIC TANK
- INDICATES APPROVED PERCOLATION TEST

PLAN VIEW:

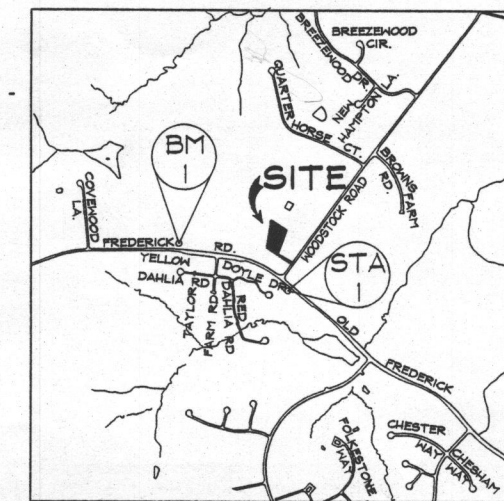
SCALE: 1"=50'



Professional Certification
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 21998, Expiration Date 06/06/16.

DATE: 06-10-2014

W. RICHARD DEMARIO, P.E.
PROFESSIONAL ENGINEER NO. 21998



VICINITY MAP

SCALE: 1"=200'

BENCHMARK

BENCHMARK #1
ST-38 REAR WOODSTOCK ROAD
1011 - 1/2" REBAR
ELEV. 468.255

STATION #1
N. 60095.143
E. 1345340.3428 M.
101A - STAMPED DISK
ELEV. 441.912

ADC MAP COORDINATES
MAP 4694-JO

NOTE:

DISCHARGE FROM ADVANTECH SYSTEM FLOWS BY GRAVITY. NO PUMPS ARE REQUIRED.

DATASOURCES:

BAT SITE PLAN IS BASED ON PERCOLATION CERTIFICATION PLAN, DATED JANUARY 19, 2011 BY DAVID RANSOME-LAND SURVEYOR. HOUSE FOOT PRINT PROVIDED BY MR. MIKE MCGINNIS.

DDC Inc.
Development Design Consultants

Planners
Surveyors
Engineers
Landscape Architects

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Westminster, MD 21157
410.386.0560
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DDC@DDCinc.us
www.DDCinc.us

OWNER:
KAREN L. MERKLE
1950 WOODSTOCK ROAD
WOODSTOCK, MARYLAND
21163-1326
443-605-8980

DEVELOPER:
MIKE MCGINNIS
227 MERION POND
WOODSTOCK MD 21163
410-489-9248

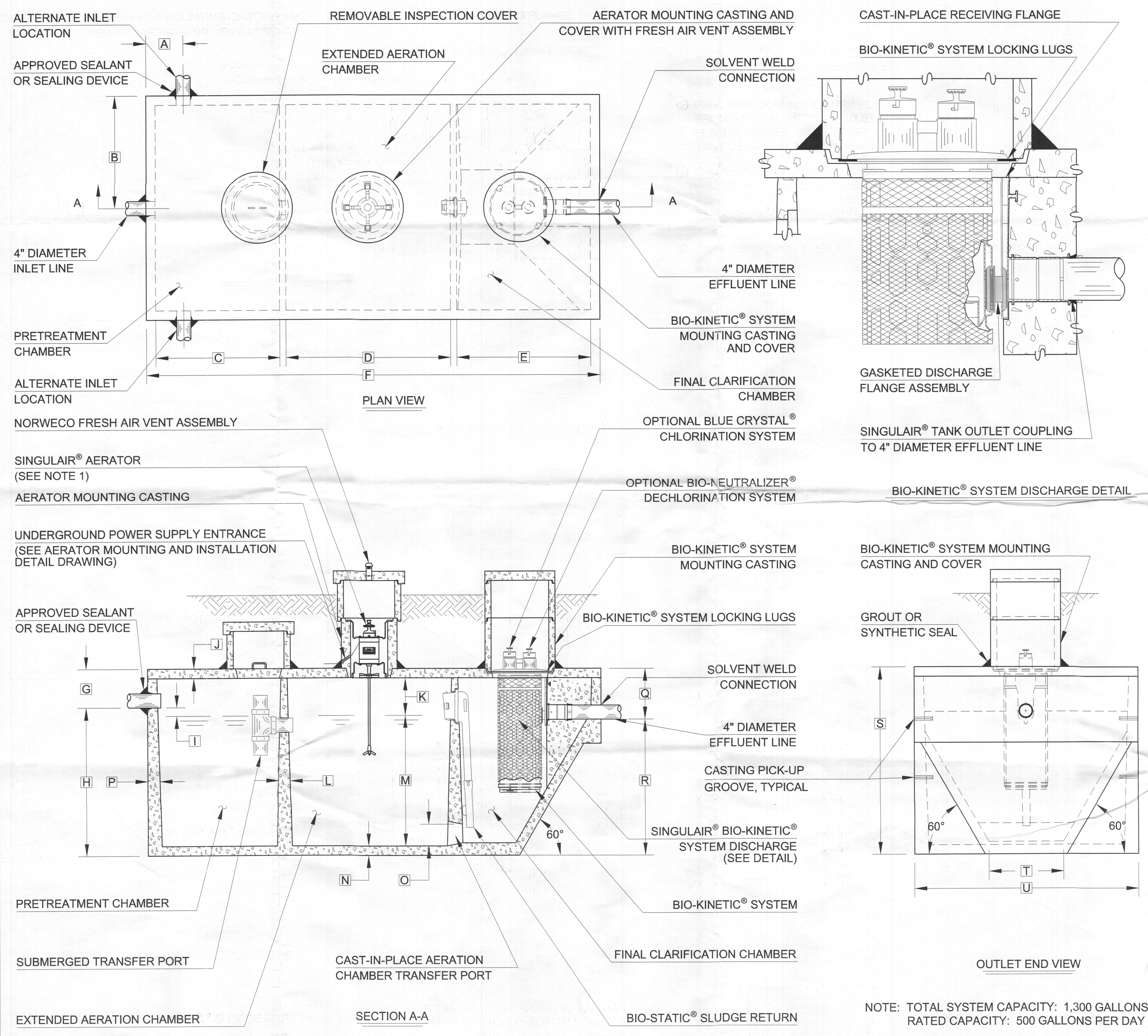
SITE ADDRESS:
1950 WOODSTOCK ROAD
WOODSTOCK, MARYLAND 21163

MERKLE PROPERTY
PARCEL 206

SITE PLAN FOR BAT INSTALLATION

1930 Woodstock Rd
3rd ELECTION DISTRICT HOWARD COUNTY

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE
CO. FILE #	DES. BY: WRD			
TAX ACC. #	DRN. BY: TPM			
TAX MAP: TPM	CHK. BY: TPM			
BLOCK / GRID:	DATE: 06-10-2014			
PARCEL #: 206	DDC JOB#: 14027.1			
ZONE / USE: RC	SHEET NUMBER:			
DWG. SCALE: 1"=50'	1 of 1			



- GENERAL NOTES:**
- 1 SINGLAIR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
 - 2 FALL THROUGH SINGLAIR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
 - 3 ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
 - 4 TANK REINFORCED PER ACI STD. 318-05.
 - 5 REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
 - 6 CONTACT THE LOCAL, LICENSED SINGLAIR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

PROJECT ENGINEER'S APPROVAL:
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: _____

NAME: _____

CONTRACTOR'S CERTIFICATION:
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: _____

NAME: _____

CRITICAL DIMENSIONS

A	1'- 0"	N	0'- 3"
B	3'- 0"	O	0'- 6"
C	3'- 4"	P	0'- 3"
D	4'- 5"	Q	1'- 4"
E	3'- 7"	R	3'- 8"
F	12'- 2"	S	5'- 0"
G	1'- 0"	T	2'- 0"
H	4'- 0"	U	6'- 0"
I	0'- 3"	V	
J	0'- 3"	W	
K	1'- 0"	X	
L	0'- 2"	Y	
M	3'- 6"	Z	

U.S. AND FOREIGN PATENTS PENDING
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norweco®
LOW-PROFILE SINGLAIR® BIO-KINETIC® WASTEWATER TREATMENT SYSTEM
MODEL TNTLP-500 GPD

REVISION DATE
3-26-07
REVISION
B
APPROVED BY
BDS
DATE
JMM
10-16-06
SCALE
NTS
DRAWING NO.
PC-5-7091

NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS
RATED CAPACITY: 500 GALLONS PER DAY

OK
10/3/2016